Maine Clean Air Zone Projects (Service Learning Opportunities) Partners: COMMUNICATION TOOLS:

- *Community Volunteers
- *School Eco-Teams
- *Maine DEP-Air Bureau
- *American Lung Association
- *Council of Churches
- *Sierra Club-Cool Cities Team

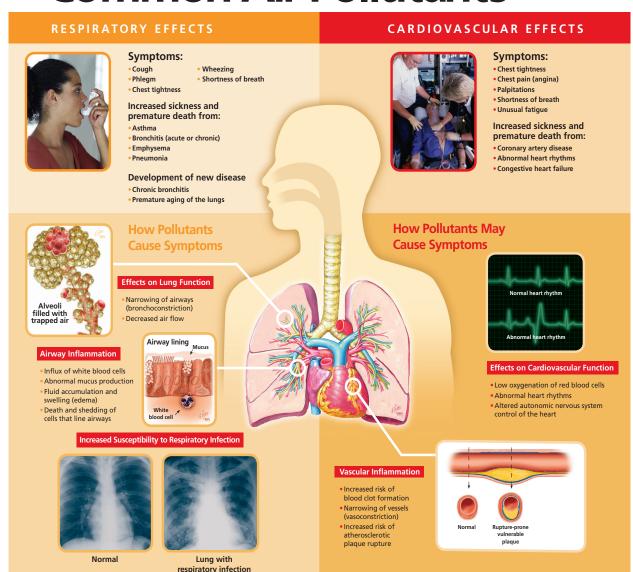




Ask about our free Gallery Walk Challenge, Teaching Resources and Communications Tools...



Effects of Common Air Pollutants



Reduce your risk by using the Air Quality Index (AQI) to plan outdoor activities – www.airnow.gov		
AQI Levels of Health Concern	AQI Values	What Action Should People Take?
Good	0-50	Enjoy Activities
Moderate	51-100	People unusually sensitive to air pollution: Plan strenuous outside activities when air quality is better
Unhealthy for Sensitive Groups	101-150	Sensitive Groups: Cut back or reschedule strenuous outside activities Partide Pollution: People with heart or lung disease (including diabetics), older adults, and children Ozone: Active children and adults and people with lung disease Suffur Dioxide: Active children and adults with asthma Carbon Monoxide: People with heart disease and possibly fetuses and infants
Unhealthy	151-200	Everyone: Cut back or reschedule strenuous outside activities Sensitive groups: Avoid strenuous outside activities
Very Unhealthy	201-300	Everyone: Significantly cut back on outside physical activities Sensitive groups: Avoid all outside physical activities ENACEMONDATION

Asthma & Diesel Exhaust

- Particles in air pollution can aggravate asthma & respiratory symptoms
- Children are sensitive to air pollution -their lungs are developing and they have a faster breathing rate

Did you Know?



Children diagnosed with asthma doubled between 1983 and 1995.









13.2% of Maine children have been diagnosed with asthma. (1 in 5 households)

Asthma related absences each year in Maine: 65,000 lost school days 37,500 lost work days

A Community-based Social Marketing Initiative

Key Steps:

Conducting Research

Raise public awareness of health and environmental impacts from idling vehicles then foster community stewardship behaviors.

Establishing Norms & **Getting Commitment**

> **Providing Prompts &** Reminders

"Stewardship behavior is most effectively achieved through initiatives delivered at the community level."

Fostering Sustainable Behavior -Doug McKenzie Mohr & William Smith



Drivers, stop your engines!

For your family's health, you can start a local Clean Air Zone campaign; spreading the word neighbor to neighbor and identifying potential Clean Air Zones in your community. Call now (207-761-5616) to obtain a Clean Air Campaign - Tool Kit to get started.

Breathe Easier, Save Money, and The Benefits: Protect our Air and Health by turning off your vehicle whenever parked.



- There are many good reasons not to idle.
- Idling causes pollution. Pollution can cause health problems.
- Idling wastes expensive fuel.
- Excessive idling can damage engine components. Conserving fuel promotes energy independence.

The Problem: Air Pollution & Our Health

In Maine, 13.2% of children suffer from asthma - that's the highest rate in New England.



Vehicle emissions contribute air toxics, as well as nitrogen oxides which react with sunlight to form ozone pollution.



Vehicle emissions can trigger asthma attacks and other respiratory and cardiovascular health effects.



Children are more sensitive to pollution; they breathe 50% more air per pound of body weight.

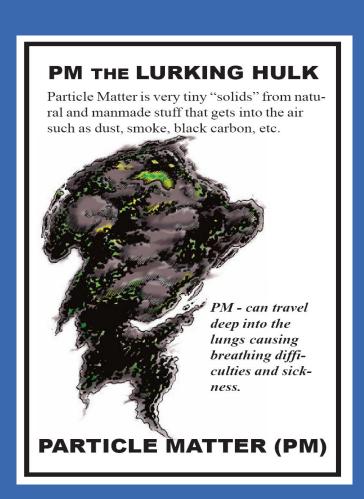


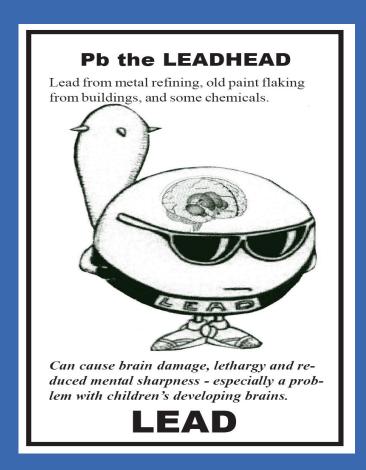
Vehicle or mobile sources contribute more than 50% of air pollution emissions in Maine.

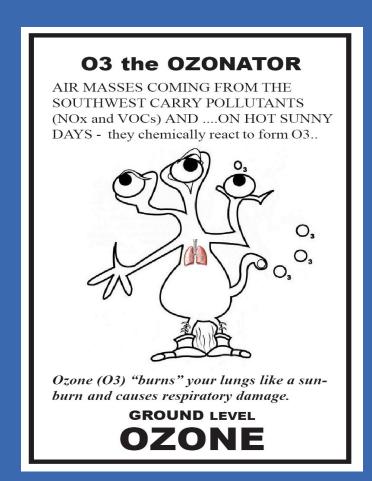


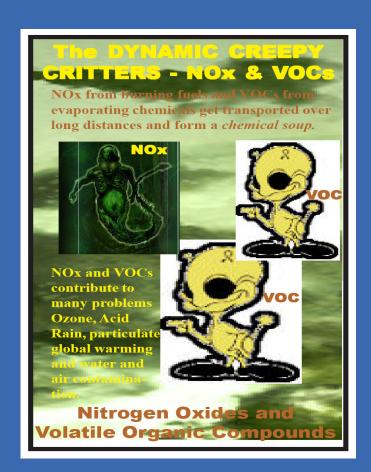


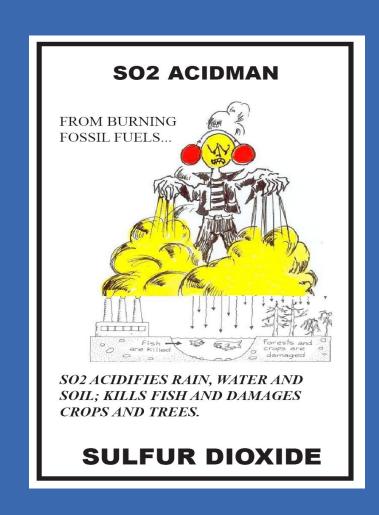
CAZ Classroom Teaching Tools help students learn all about Air Pollution

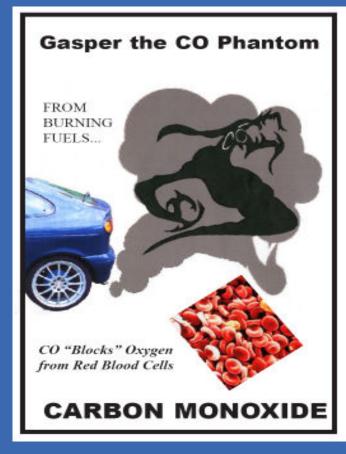








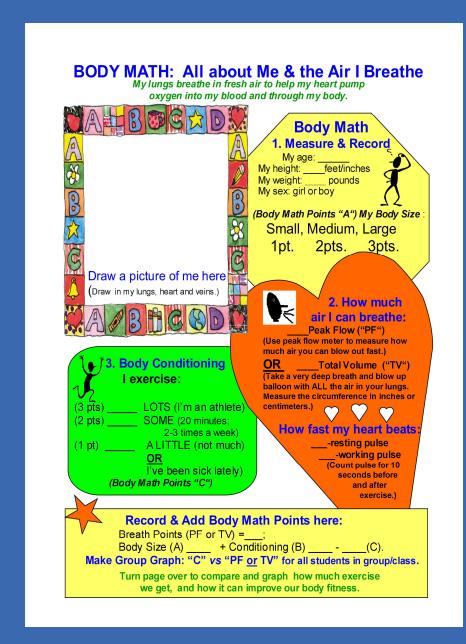


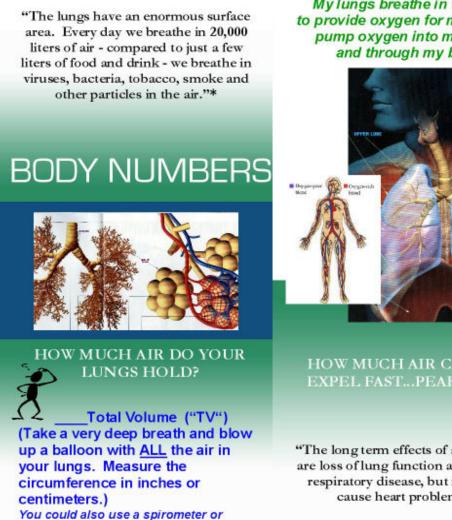


& its Health Effects

special spirometry bag to get a

Total Volume measurement in liters.





WHAT VARIABLES AFFECT My lungs breathe in fresh air to provide oxygen for my heart to **OUR LUNG & HEART HEALTH?** pump oxygen into my blood and through my body. have asthma. HOW MUCH AIR CAN YOU EXPEL FAST...PEAK FLOW? "The long term effects of air pollution are loss of lung function and possible respiratory disease, but it can also cause heart problems."* * "Clearing the Air",

Conditioning, genetics, body size, gender, age, weight, other_ Peak Flow ("PF") (Use a peak flow meter to measure how much air you can blow out fast.) This is a measure of how healthy and conditioned your lungs and airways are. You can use this tool daily to keep track of respiratory changes, especially if you **Body Conditioning** l exercise: LOTS (I'm an athlete) SOME (20 minutes; 2-3 times a week) _A LITTLE (not much) OR I've been sick lately) How fast my heart beats: _- resting pulse _- working pulse (Count pulse for 10 seconds before and after exercise - multiply x 6 to get the beats per minute.) MEASURE & Jonathan Shaw, GRAPH THE DATA Harvard Magazine, 2005